

OTHER CONTROLS

The contractor shall follow this ESPCP and ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

The contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's Specifications.

SEDIMENT STORAGE

The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.

The site has a total disturbed area of 9.36 acres.

Outfall	Outfall ID	Total Drainage area (acres)	Disturbed area (acres)	Required Sediment Storage Volume (cu yd) (per drained ac)	Total Storage volume provided (cu yd)	Sediment Basins		Check Dam (2B cu yd each)		Inlet sediment Traps (1.5 cu yd each)		Silt Fence (0.28 cu yd/ft)	Retrofit Slotted board dam 3 cy ea	
						Pond Location	Total Volume	* of devices	Total Volume	* of devices	Total Volume	At Toe CY Storage	* of devices	Total Volume
1	106+20 RT, SR53	1.37	0.41	92	17	NA	NA	5	14	2	3	NA	NA	NA
2	122+90 RT, SR53	0.37	0.37	25	51	NA	NA	10	29	2	3	19	NA	NA
3	127+10 RT, SR53	0.95	0.53	64	36	NA	NA	13	36	NA	NA	NA	NA	NA
4	127+20 LT, SR53	2.48	1.22	166	166	NA	NA	51	143	NA	NA	23	NA	NA
5	12+20 RT, Thompson Rd	0.36	0.21	24	25	NA	NA	9	25	NA	NA	NA	NA	NA
6	14+60 LT, Thompson Rd	1.61	0.87	108	59	NA	NA	21	59	NA	NA	NA	NA	NA
7	15+20 RT, Thompson Rd	6.12	4.22	410	454	16+40 RT THOMPSON	214	47	132	1	2	103	1	3
8	27+60 RT, Thompson Rd	1.10	0.23	74	112	NA	NA	NA	NA	NA	NA	112	NA	NA
9	107+00 TO 112+00 RT, SR53	0.38	0.38	25	140	NA	NA	NA	NA	NA	NA	140	NA	NA
10	115+50 TO 119+50 RT, SR53	0.47	0.47	32	112	NA	NA	NA	NA	NA	NA	112	NA	NA
11	12+00 TO 14+60 LT, Thompson	0.22	0.22	15	73	NA	NA	NA	NA	NA	NA	73	NA	NA
12	24+00 TO 28+00 LT, Etowah	0.23	0.23	16	112	NA	NA	NA	NA	NA	NA	112	NA	NA
TOTAL			9.36											

In order to prevent runoff from bypassing Inlet sediment traps, a temporary sump shall be installed around all Inlet sediment traps that are not located in a low point or an excavated sump. Construct temporary sumps in accordance with Construction Detail D-24C. Temporary sumps shall be installed in a manner that ensures stormwater does not bypass the Inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

Locations where required sediment storage is less than volume provided:

106+20 RT - The contributing drainage area is primarily from offsite and is established (not disturbed area). The proposed construction work in this area is composed of overlaying the existing roadway and constructing the shoulders and ditch. For this area consideration was given to placing a sediment basin, but that construction would create greater impact than if not placed.

127+10 RT - The contributing drainage area is primarily from offsite and is established (not disturbed area). For this area consideration was given to placing a sediment basin, but that construction would create greater impact than if not placed.

14+60 LT, Thompson Rd - The contributing drainage area is primarily from offsite and is established (not disturbed area - heavily wooded and paved areas). Ditch checks are placed at 25' spacing along the ditch prior to the outfall. Slope mat is to be placed on the slopes. A rock filter dam is to be placed at the end of the proposed ditch. For this area consideration was given to placing a sediment basin, but that construction would create greater impact than if not placed.

Note: Silt gates are not used as alternatives to conventional BMP's. They are used as additional BMP's above and beyond what is required.

STREAM BUFFER ENCROACHMENT

Stream Buffers are impacted by this project.

The contractor is not authorized to enter into stream buffers, except as described in the table below:

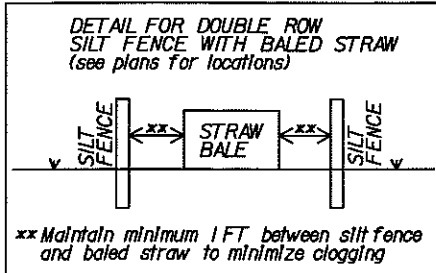
Name (name or number of feature)	Location of Buffered Streams and State Waters ==			Stream Type (Warm/Cold Water) *	Buffer Impacted (Yes/No)	Buffer Variance Required?
	Alignment	Begin Sta (L or RT)	Ending Sta (L or RT)			
INTERMITTENT	THOMPSON RD	14+80 RT	15+70 RT	WARM	YES	NO (DRAINAGE STRUCTURE)

* Warm water streams have a 25-foot minimum buffer as measured from the wooded vegetation.
Cold water streams have a 50-foot buffer as measured from the wooded vegetation.

** Locations are approximate, a detailed location of stream buffers and authorized work areas are shown on the individual BMP sheets.

MONITORING SAMPLING METHODS & PROCEDURES

See Special Provision 167 and other contract documents for Monitoring Sampling Methods and Procedures.



DISCHARGES INTO OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT
All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an Impaired Stream Segment that has been listed for criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macro Invertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

MONITORING GENERAL NOTES:

The total site size is 1222 acres

Representative sampling may be utilized on this project. The characteristics of the individual watersheds along the project corridor have been carefully evaluated and compared on the basis of drainage characteristics, watershed size, land disturbance and earth work. After evaluation of these items as presented in the project's drainage area maps, hydrology and hydraulic studies, construction plans and erosion sedimentation and pollution control plans, it has been determined that the increase in turbidity at the specified locations will be representative of the increase in turbidity for all waters leaving the site. Approved primary and alternate representative monitoring sites are identified in the table below.

Monitoring site	Primary or Alternate Site	Location (Sta. and Side)	Name of Receiving water	Applicable construction stage for monitoring	Sampling Type (Outfall or Receiving Water)	Drainage Area (acres)	Total Project Area (acres)	Warm or Cold water Stream	Appendix B NTU value (outfall Monitoring Only)	Allowable NTU Increase (For Receiving Water)	Location Description
1.	Primary	15+10 RT THOMPSON	ETOWAH RIVER	IA, I, II, III, IV	OUTFALL	6.12	12.22	WARM	50	NA	INTO EXISTING DITCH
2.	Alternate	127+40 LT SR53	ETOWAH RIVER	IA, I, II, III, IV	OUTFALL	2.48		WARM	50	NA	INTO EXISTING DITCH

(According to the EPD, additional monitoring sites may be required depending on significant changes in typical sections)

The primary site specified should be used as the initial sampling location. The alternate sampling sites may be used if additional sampling is required and/or if the primary sampling site is no longer located within the active phase of construction.

USE OF ALTERNATIVE AND/OR ADDITIONAL BMP'S:

Silt gates are used on this project as additional BMP's at pipe inlets and are not being used in place of or as a substitute for other conventional BMP's. Temporary check dams are used to provide interim stabilization and flow velocity reduction. The stability of the site is maintained with other conventional BMP's as shown on the plans. The ESPCP would be fully compliant with general requirements if the silt gates were removed and as a result are not considered alternative BMP's when used on this project. The silt gates help to prevent clogging during construction that can result from the ingestion of sediments and other large debris like riprap, sand bags, roadway debris, and other construction materials that when combined with sediments easily clog roadway drainage pipes. Sediment stored by silt gates is not included in the required minimum sediment storage volume or shown in the sediment storage table.

READY MIX CHUTE WASH-DOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of Portland cement concrete is prohibited on this site.

In accordance with Standard Specification 107, Legal Regulations and Responsibility to the Public, only the discharge chute utilized in the delivery of Portland cement concrete may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down without overtopping. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above it shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash down water down a storm drain. Establish a wash-down pit that includes the following: (1) a location away from any storm drain, stream, or river, (2) access to the vehicle being used for wash-down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash-down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container to a proper disposal site. For additional information, refer to Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".

RETENTION OF RECORDS

The Department will retain records in accordance with Part IV.F of the General Permit GAR 100002.

TEMPORARY SEDIMENT BASIN DETAILS:

The table below is provided to show the overall dimensions and significant elevations of the sediment basin. Drainage areas, required sediment storage volumes, and actual sediment basin volumes as measured at the riser crest elevations are shown above. See Construction Detail D-22 and the ESPCP plan sheets for further clarification on the dimensions listed in this table.

Sediment Basin	Location (Sta. and Side)	Top of Dam Elevation and width (ft)	Principal Spillway Riser crest elevation (ft)	Basin Depth and riser height (ft)	Bottom width (ft)	Bottom length (ft)	Width at riser crest (ft)	Length at riser crest (ft)	Effectiveness Length (ft)	Clean out Elevation (ft)	Emergency Spillway Crest Elevation (ft)	Emergency Spillway Bottom Width (ft)	Q25 (cfs)
1.	Sta 16+50 Thompson Rd (RT)	1122.0 10	1118.5	4.0	10	76	26	92	92	1116.0	1119.5	8	20.7

REVISION DATES

4/11/12		
6/12/12		
6/22/12		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT I
ESPC GENERAL NOTES

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